

ATTACHMENT B

BIOSOLIDS/SLUDGE MANAGEMENT

I. General Requirements

- A. All biosolids generated by the City of Los Angeles (City) at its Hyperion Treatment Plant (HTP) shall be used or disposed of in compliance with the applicable portions of 40 CFR 257, 258, and 503, and the applicable portions of the California Biosolids General Order (*State Water Resources Control Board Water Quality Order No. ~~2000~~ 2004-10-DWQ, General Waste Discharge Requirements for the Discharge of Biosolids to Land for Use as a Soil Amendment in Agricultural, Silvicultural, Horticultural, and Land Reclamation Activities*), or site-specific Waste Discharge Requirements, issued by the Regional Board(s) for land application sites in the jurisdiction(s) in which biosolids from HTP are applied.
- B. The City is responsible for assuring that all biosolids produced at HTP are used or disposed of in accordance with these rules, whether the permittee uses or disposes of the biosolids itself or transfers them to another party for further treatment, use, or disposal. The City is responsible for informing subsequent preparers, applicators, and disposers of the requirements that they must meet under these rules.
- C. Duty to mitigate: The City shall take all reasonable steps to prevent or minimize any biosolids use or disposal which has a likelihood of adversely affecting human health or the environment.
- D. No biosolids shall be allowed to enter wetlands or other waters of the United States.
- E. Biosolids treatment, storage, and use or disposal shall not contaminate groundwater.
- F. Biosolids treatment, storage, and use or disposal shall be performed in a manner as to minimize nuisances such as objectionable odors or flies.
- G. The City shall assure that haulers transporting biosolids off site for treatment, storage, use, or disposal take all necessary measures to keep the biosolids contained.
- H. If biosolids are stored for over two years from the time they are generated, the permittee must ensure compliance with all the requirements for surface disposal under 40 CFR 503 Subpart C, or must submit a written notification to U.S. Environmental Protection Agency (EPA) with the information in 503.20 (b), demonstrating the need for longer temporary storage.
- I. Any biosolids treatment, disposal, or storage site shall have facilities adequate to divert surface runoff from adjacent areas, to protect the site boundaries from erosion, and to prevent any conditions that would cause drainage from the materials in the site to escape from the site. Adequate protection is defined as protection from at least a 100-year storm and from the highest tidal stage that may occur.
- J. The application of ~~bulk-thermophilically digested~~ "exceptional quality" biosolids produced at the HTP shall comply with the general requirements in 40 CFR 503.12 and management practices in 40 CFR 503.14.

II. Inspection and Entry:

The Los Angeles Regional Board, the Central Valley Regional Board, Arizona Department of Environmental Quality (ADEQ) and EPA, or an authorized representative thereof, upon the presentation of credentials, shall be allowed by the City, directly or through contractual arrangements with their biosolids management contractors, to:

- A. Enter upon all premises where biosolids produced by the City are treated, stored, used, or disposed, either by the City or by another party to whom the City transfers the biosolids for treatment, storage, use, or disposal,
- B. Have access to and copy any records that must be kept under the conditions of this permit or of 40 CFR 503, by the City or by another party to whom the City transfers the biosolids for further treatment, storage, use, or disposal,
- C. Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations used in the biosolids treatment, storage, use, or disposal by the City or by another party to whom the City transfers the biosolids for treatment, use, or disposal.

III. Monitoring:

- A. A representative sample shall be collected and analyzed on a monthly basis for the pollutants required under the applicable portions of 40 CFR 503, organic nitrogen, and ammonium nitrogen, and fecal coliform. The results shall be reported on a 100% dry weight basis.
- B. Prior to land application, the City shall demonstrate that the biosolids meet Class A or Class B pathogen reduction levels by one of the methods listed in 503.32. If pathogen reduction is demonstrated using a Process to Significantly/Further Reduce Pathogens, the City shall maintain daily records of the operating parameters used to achieve this reduction.
- C. For biosolids that are land applied or placed in a surface disposal site, the City shall track and keep records of the operational parameters used to achieve Vector Attraction Reduction requirements in 503.33(b).
- D. During the first two years of the permit term, the City shall collect four representative samples and analyze for the following:
 - 1. Dioxins and dibenzofurans, using method 1613(a);
 - 2. Coplanar PCBs, using method 1668(a);
- E. The biosolids shall be sampled and analyzed once per year using the Toxicity Characteristic Leachate Procedure or California Waste Extraction Test.
- F. Biosolids shall be monitored semi-annually for all pollutants listed under Section 307(a) of the CWA. Results shall be expressed in mg pollutant per kg biosolids on a 100% dry weight basis.

IV. Notification Requirements

- A. The City either directly or through contractual arrangements with their biosolids management contractors, shall comply with the following notification requirements:
1. Notification of non-compliance: The City shall notify EPA Region 9 and the applicable Regional Board or State agency of any non-compliance within 24 hours by phone or e-mail if the non-compliance may seriously endanger public health or the environment. A written report shall also be submitted within 5 working days of knowing the non-compliance. For other instances of non-compliance, the City shall notify EPA Region 9 and the Regional Board of the non-compliance in writing within 5 working days of becoming aware of the non-compliance. The City shall require their biosolids management contractors to notify EPA Region 9 and the Regional Board of any non-compliance within the same time-frames.
 2. If biosolids are shipped to another state or to Indian Lands, the City must send 30 days prior notice of the shipment to the EPA and permitting authorities in the receiving State or Indian Land. In case of emergency situations, the City shall notify EPA and permitting authorities in the receiving State or Indian Lands, by phone or e-mail, 48 hours prior to shipment and shall obtain approval from the State or Indian Land authority prior to shipment
 3. If the City or the persons it contracts with for biosolids use or disposal receive complaints of health problems associated with biosolids treatment, use, or disposal, the EPA and applicable County Health Department staff shall be notified of the complaints within 48 hours.
- B. Proposed application rates: By December 1 of each year, the City shall require their biosolids management contractors to submit to EPA a plan for the following calendar year of the volumes it projects to apply, dispose, or transfer to another ~~treatment works processing facility to EPA~~. The plan shall contain a list of fields it proposes to use for land application with the following:
- Name of field; location, ownership, size in acres
 - Projected dates of applications, seedings, harvesting
 - Projected tonnage to be applied to field
 - Projected Plant Available Nitrogen (PAN) before ~~and after~~ application (plan shall include methodology used to calculate PAN and agronomic rate, and targeted PAN for crop)
- C. The City shall require their biosolids management contractors to notify EPA Region 9 and the applicable Regional Board by phone or e-mail, or have its contractors notify EPA and the applicable Regional Board, at least 24 hours prior to changing application fields, of the field to which it will be moving ~~to~~.
- D. Following completion of application to any field, in the case where actual calculated PAN exceeds targeted PAN, the City shall have its contractor submit an explanation of the exceedance within 7 days of completion of the field.

- E. The City shall notify EPA and the Regional Board at least 60 days prior to starting a new use or disposal practice.

V. Reporting requirements:

- A. The City shall require its contractor(s) to submit an annual biosolids report to the EPA Region 9 Biosolids Coordinator, Los Angeles Regional Water Quality Control Board, Central Valley Regional Water Quality Control Board (Fresno Office), and all other Regional Boards/State Agencies where biosolids are applied by February 19 of each year for the period covering the previous calendar year. The report shall include:

1. The amount of biosolids generated that year, in dry metric tons, and the amount used or disposed by each use/disposal practices. For contracted use or disposal, the volume taken by each contractor shall be reported.
2. Results of all monitoring required under Monitoring Requirements above. All results must be reported on a 100% dry weight basis. Locations of sample collection shall be reported.
3. Documentation of those operational parameters used to demonstrate compliance with pathogen reduction and vector attraction reduction, and certifications.
4. For land application sites:
 - Name of each field; location, ownership, size in acres
 - Actual dates of applications, seedings, harvesting
 - Number of truckloads to each field
 - Actual tonnage applied to field, in actual and dry weight
 - Calculated Plant Available Nitrogen before and after application, including methodology used to calculate plant available nitrogen and agronomic rate
 - Copies of applicator's certifications of management practices
 - Copies of applicator's certifications of site restrictions

- B. Reports shall be submitted to:

1. Los Angeles Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, CA 90013
2. Central Valley Regional Water Quality Control Board, Fresno Office
~~3614 East Ashlan Avenue~~ 1685 E Street
Fresno, CA ~~93726~~ 93706
3. Regional Biosolids Coordinator
US EPA (WTR-7)
75 Hawthorne St.
San Francisco, CA 94105-3901
4. Arizona Department of Environmental Quality
Water Quality Compliance Assurance Unit

Attachment B
Biosolids/Sludge Management

1110 W. Washington St., 5630C
Phoenix, AZ 85007